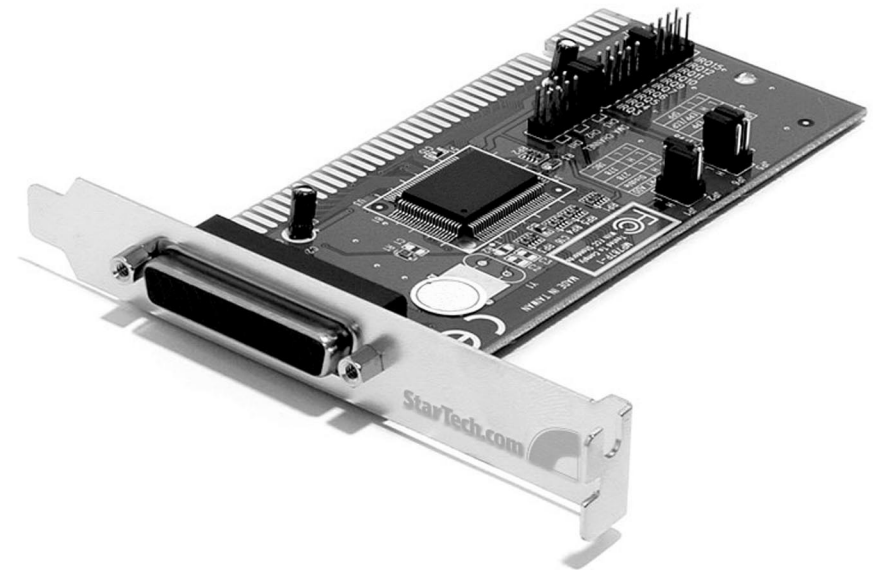# PARALLEL CARD

Single Port ISA EPP/ECP
Parallel Card

ISA1P

Instruction Guide

* Actual product may vary from photo

StarTech.com

FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

Technical Support

The following technical resources are available for this StarTech.com product:

On-line help:

We are constantly adding new information to the *Tech Support* section of our web site. To access this page, click the *Tech Support* link on our homepage, **www.startech.com**. In the tech support section there are a number of options that can provide assistance with this card.

Knowledge Base - This tool allows you to search for answers to common issues using key words that describe the product and your issue.

FAQ - This tool provides quick answers to the top questions asked by our customers.

Downloads - This selection takes you to our driver download page where you can find the latest drivers for this product.

Call StarTech.com tech support for help: **1-519-455-4931**
Support hours: Monday to Friday 9:00AM to 5:00PM EST (except holidays)

Warranty Information

This product is backed by a lifetime warranty. In addition StarTech.com warrants its products against defects in materials and workmanship for the periods noted below, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

Limitation of Liability

In no event shall the liability to StarTech.com Ltd. (or its officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of related to the use of the product exceed the actual price paid for the product.

Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

Table of Contents

Introduction

Thank you for purchasing a StarTech.com EPP/ECP ISA Parallel card. Now you can add an extra printer, scanner, Zip drive, or other parallel peripheral with ease. The large range of IRQ settings mean that this card will work in most PCs, and the EPP support provides fast parallel transfer rates of up to 1.5 Mbps.

Features

- Adds a second parallel port to your computer

- Can be configured to any IRQ via jumper settings

- Transfers data at speeds of up to 1.5 Mbps

- Supports LPT 1-6

- Backed by StarTech.com's lifetime warranty

Before You Begin

To ensure a quick and easy card installation, please read through this section carefully before attempting to install the card.

System Requirements

- An IBM PC running Windows 3.1/95/98/Me/2000/XP, or NT 4.0

- An open ISA slot

WARNING! ISA cards, like all computer equipment, can be severely damaged by static electricity. Be sure that you are properly grounded before opening your computer case or touching your ISA card. StarTech.com recommends that you wear an anti-static strap when installing any computer component. If an anti-static strap is unavailable, discharge yourself of any static electricity build-up by touching a large grounded metal surface (such as the computer case) for several seconds. Also be careful to handle the ISA card by its edges and not the gold connectors.

Contents

This package should contain:

- 1 x ISA Parallel card

Printer Port Mode

Set the printer port mode by placing the jumper on the appropriate jumper pins. You will be looking at JP6 and JP7 to set the printer port mode.

JP6	JP7	Printer Port Mode
2-3	2-3	ECP (Extended Capabilities)
2-3	1-2	EPP (Enhanced Printer)
1-2	2-3	PS2 (PS2 Printer)
1-2	1-2	SPP (Standard/Simple Parallel -- Default)

DMA Channel Selection (ECP Mode Only)

If you have set your jumpers to operate your port in ECP mode, you also have the option of selecting your Direct Memory Access (DMA) channel selection. You will first need to find an available DMA Channel on your system. Consult the user manual that came with your OS for instructions, if necessary. To select the DMA channel, you will be looking at the JP8 set of jumper pins (also labeled CH1, CH2, and CH3).

JP8		DMA Channel
CH1	1-2 3-4	Channel 1 (Default)
CH2	5-6 7-8	Channel 2
CH3	9-10 11-12	Channel 3

Setting Your Jumpers

Before installing the card, you may want to configure the card by setting the jumpers.

IRQ Address

1. Find an available IRQ on your system. Consult the user manual that came with your OS for instructions, if necessary.

2. Set the IRQ line by placing the jumper on the appropriate IRQ jumper pins.

NOTE: The card supports IRQs 3, 4, 5, 6, 7, 9, 10, 11, 12, and 15.

Memory Address

1. Find an available Memory Address on your system. Consult the user manual that came with your OS for instructions, if necessary.

2. Set the memory address by placing the jumper on the appropriate jumper pins. You will be looking at JP2 through JP5 to set the memory address.

JP2	JP3	JP4	JP5	Address
1-2	1-2	1-2	1-2	378 (Default)
1-2	1-2	1-2	2-3	278
1-2	1-2	2-3	1-2	3BC
1-2	2-3	1-2	1-2	208
1-2	2-3	1-2	2-3	218
1-2	2-3	2-3	1-2	228
2-3	1-2	1-2	1-2	238
2-3	1-2	1-2	2-3	248
2-3	1-2	2-3	1-2	258
2-3	1-2	2-3	2-3	268
2-3	2-3	1-2	1-2	318
2-3	2-3	1-2	2-3	338
2-3	2-3	2-3	1-2	358
2-3	2-3	2-3	2-3	398

Installation

This section will guide you through the installation of your ISA card. Please read through the instructions carefully and complete each step in the order listed.

NOTE: If you want to configure your card in a manner that is different from the default (IRQ 7, Memory Address 378, Standard/Simple Parallel Port) you will need to adjust the jumpers before installing the card. See "Setting Your Jumpers" on page 4.

Installing the Card

1. Make sure that your system is unplugged and you are grounded.

2. Remove the cover of your system (see your computer's user manual for details, if necessary) and gently turn your computer onto its side.

3. Locate an empty ISA slot (usually black in colour) and remove the metal plate that covers the rear bracket. You may need a Phillips screwdriver to perform this step. **Hang on to the screw!** You will need it to secure the card later.

4. Gently insert the card into the empty slot, making sure it is firmly seated.

5. Secure the card in place using the screw you removed in Step 3.

6. Put your computer case back on.

Windows 2000 and **Windows XP** users will have to activate legacy Plug and Play support to be able to use this card. Consult your Windows user guide for more information, if necessary.

1. From your **Device Manager**, expand the **Ports** icon and double-click on **Printer Port**.

2. Click on the **Port Settings** tab, and make sure that the "Use any interrupt assigned to the port" and "Enable legacy Plug and Play detection" boxes are checked. Click **OK**.

3. Reboot your computer to allow the changes to take effect.